Scientific and Technical Information Center

4/14/63

SEARCH REQUEST FORM

Art Unit: _/6/4 Phone (Examiner # : 70 \(\frac{1}{20} \) 1 Number: \(\frac{09/28/892}{2} \)	
Results Format Preferred (circle): PA	APEK DISK E-MAIL	*******************	***
To ensure an efficient and quality search, ple	ease attach a copy of the cover sheet,	claims, and abstract or fill out the following:	
Title of Invention: Viral 1	reatment	()	
Inventors (please provide full names):		IM , Sourper equipmen	<u>.</u>
elected species or structures, keywords, synon	yms, acronyms, and registry numbers aning. Give examples or relevant cita	as possible the subject matter to be searched. Include, and combine with the concept or utility of the inventions, authors, etc, if known.	
For Sequence Searches Only Please include the appropriate serial number.	le all pertinent information (parent, g	randchild, divisional, or issued patent numbers) alon	ig with
Please search moth	ods of treating	viral inflations rue	11 a.s. Sud
hepatetis (C), herpes sur	uplex, AIV,	Kaposi's Sarcorna	WALC
For Sequence Searches Only Please include the appropriate serial number. Plan Aldreh Moth, hepper Augustions of the serial number.	sniprising admi	uistrung	
G N N N N N N N N N N N N N N N N N N N		Point of Contact: Mary Hale Technical Info. Specialist M1 12D16 Tel: 308-4258	R
n=1-4 G= H, alkyl, halo, a	exgolitoro, hydri	oxy - SH, alkoxy Es - 8 1999	CEIVED
di mad i		Thau	Ks
************	***************	Tondom and Cost	•
STAFF USE ONLY Searcher:	Type of Search NA Sequence (#)	Vendors and CostDialog	
Searcher Phone #:	AA Sequence (#)	Questel/OrbitDr.Link	
Searcher Location:	Structure (#)	Lexis/NexisWestlaw	
Date Searcher Picked Up:	Bibliographic	WWW/Internet	•
Date Completed:	Litigation	In-house sequence systems (list)	
Searcher Prep & Review Time:	Fulltext	Other (specify)	
Online Time:	Other		
			

FILE 'REGISTRY' ENTERED AT 14:44:10 ON 16 DEC 1999
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 1999 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 15 DEC 99 HIGHEST RN 250790-36-4 DICTIONARY FILE UPDATES: 15 DEC 99 HIGHEST RN 250790-36-4

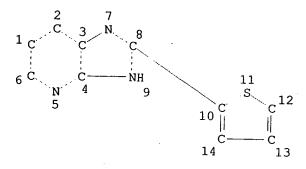
Spwack 281892

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 13, 1999

Please note that search-term pricing does apply when conducting SmartSELECT searches.

POTENTIAL STEREO BOND SEARCH PROBLEM WITH STN EXPRESS WITH DISCOVER! 5.0 (Windows Only) SEE NEWS MESSAGE FOR DETAILS.

=> d 13 que stat;d 16 que stat;d 1-9 ide cbib abs



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 14 STEREO ATTRIBUTES: NONE

L3 0 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 8 ITERATIONS

SEARCH TIME: 00.00.01

0 ANSWERS

L4 STR

2 7
1 c C 3 N N 8
c C 5
6 C N 4 9
5 10 C C 12
10 C C 14 13

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

L6 9 SEA FILE=REGISTRY SSS FUL L4

100.0% PROCESSED 127 ITERATIONS

SEARCH TIME: 00.00.01

9 ANSWERS

L6 ANSWER 1 OF 9 REGISTRY COPYRIGHT 1999 ACS

RN 120800-29-5 REGISTRY

CN 1H-Imidazo[4,5-b]pyridine, 2-(2-thienyl)-, monohydrochloride (9CI) (CA INDEX NAME)

MF C10 H7 N3 S . Cl H

SR CA

LC STN Files: CA, CAPLUS

CRN (1204-64-4)

• HCl

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 110:231657 Preparation of heterocyclyl imidazopyridines and -purines as cardiovascular agents. Hauel, Norbert; Heider, Joachim; Diederen, Willi; Van Meel, Jacques (Thomae, Dr. Karl, G.m.b.H., Fed. Rep. Ger.). Ger. Offen. DE 3722992 A1 19890119, 15 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1987-3722992 19870711.

GI For diagram(s), see printed CA Issue.

AB The title compds. [I; AB = atoms to complete a pyridine or pyrimidine ring; R = (un)substituted C-attached heterocyclyl] were prepd.

3,4-Diaminopyridine was refluxed .apprx.3.5 h with 2,6-dimethoxynicotinic acid in POCl3 to give 10% pyridylimidazopyridine II which gave a 68% increase in coronary contractility with a 25 mmHg lowering of blood pressure in cats receiving 1 mg/kg i.v.. Tablets were prepd. each contg. II 100.0, lactose 50.0, polyvinylpyrrolidone 5.0, CM-cellulose 19.0, and Mg stearate 1.0 mg.

L6 ANSWER 2 OF 9 REGISTRY COPYRIGHT 1999 ACS

RN 120800-19-3 REGISTRY

CN 1H-Imidazo[4,5-b]pyridine, 2-(5-methyl-2-thienyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C11 H9 N3 S

SR CA

LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 110:231657 Preparation of heterocyclyl imidazopyridines and -purines as cardiovascular agents. Hauel, Norbert; Heider, Joachim; Diederen, Willi; Van Meel, Jacques (Thomae, Dr. Karl, G.m.b.H., Fed. Rep. Ger.). Ger. Offen. DE 3722992 Al 19890119, 15 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1987-3722992 19870711.

GI For diagram(s), see printed CA Issue.

AB The title compds. [I; AB = atoms to complete a pyridine or pyrimidine ring; R = (un)substituted C-attached heterocyclyl] were prepd.

3,4-Diaminopyridine was refluxed .apprx.3.5 h with 2,6-dimethoxynicotinic acid in POCl3 to give 10% pyridylimidazopyridine II which gave a 68% increase in coronary contractility with a 25 mmHg lowering of blood pressure in cats receiving 1 mg/kg i.v.. Tablets were prepd. each contg.

II 100.0, lactose 50.0, polyvinylpyrrolidone 5.0, CM-cellulose 19.0, and Mg stearate 1.0 mg.

L6 ANSWER 3 OF 9 REGISTRY COPYRIGHT 1999/ACS

RN 99479-94-4 REGISTRY

CN 1H-Imidazo[4,5-b]pyridine, 2-(3,5-dimethoxy-2-thienyl)-, hydrochloride (9CI) (CA INDEX NAME)

MF C12 H11 N3 O2 S . x Cl H

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CRN (99479-92-2)

• x HCl

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 104:19578 2-(2-Thienyl)imidazo[4,5-b]pyridine derivatives and their pharmaceutically compatible acid addition salts. Binder, Dieter; Rovenszky, Franz (Laevosan G.m.b.H. und Co. K.-G., Austria). Eur. Pat. Appl. EP 148742 A1 19850717, 14 pp. DESIGNATED STATES: R: BE, CH, DE, FR, GB, IT, LI, LU, NL, SE. (German). CODEN: EPXXDW. APPLICATION: EP 1984-890212 19841109. PRIORITY: AT 1983-3999 19831114.

GΙ

$$\mathbb{R}^{2}$$
 \mathbb{S}
 \mathbb{N}
 \mathbb{N}
 \mathbb{R}^{1}
 \mathbb{I}

AB The title compds. (I: R = Me, Et; R1 = H, Me; R2 = MeS, MeS(O), MeO) were prepd. Thus, Me 3-hydroxy-5-methoxy-2-thiophenecarboxylate was methylated

with Me2SO4 to give 99.8% Me 3,5-dimethoxy-2-thiophenecarboxylate. This was sapond. (45.4%) and cyclocondensed with 2,3-pyridinediamine to give 29% I (R = Me, R1 = H, R2 = MeO). In rats representative I at 20 mg/kg/h i.v. increased heart frequency 39.2% and the heart contractility

parameter 50% with slight or no redn. in arterial blood pressure.

L6 ANSWER 4 OF 9 REGISTRY COPYRIGHT 1999 ACS

RN 99479-93-3 REGISTRY

CN 1H-Imidazo[4,5-b]pyridine, 2-[3-methoxy-5-(methylsulfinyl)-2-thienyl]-, monohydrochloride (9CI) (CA INDEX NAME)

MF C12 H11 N3 O2 S2 . C1 H
SR CA
LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL
CRN (99479-91-1)

H
N
MeO

HC1

and

of

REFERENCE 1: 120:95180 Cardiotonic actions of selective phosphodiesterase inhibitors in rat isolated ventricular cardiomyocytes. Kelso, Elizabeth J.; McDermott, Barbara J.; Silke, Bernard (Dep. Ther. Pharmacol., Queen's

2 REFERENCES IN FILE CA (1967 TO DATE) 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

Univ. Belfast, Belfast, BT7 9BL, UK). Br. J. Pharmacol., 110(4), 1387-94

(English) 1993. CODEN: BJPCBM. ISSN: 0007-1188.

The contractile effects of the novel cardiotonic agent HN-10200 (2-[3-methoxy-5-methylsulphinyl-2-thienyl]-1H-imidazo-[4,5]-pyridine hydrochloride), were examd. and comparisons made with the responses obtained to a structurally similar compd., sulmazole, and to a no. of other compds. which are known to inhibit phosphodiesterase (PDE) isoenzymes with differing selectivities; namely, enoximone (PDE III inhibitor), Ro 20-1724 (PDE IV inhibitor) and 3-isobutyl-1-methylxanthine (nonselective PDE inhibitor). Contractile function, as measured by mech. shortening, and biochem. systems involving cAMP were investigated in ventricular cardiomyocytes isolated from adult Sprague-Dawley rats (200-250 g). HN-10200 exerted a concn.-dependent (10-8 M - 10-4 M) pos.

contractile effect, which was independent of .alpha.- or .beta.-adrenoceptor, or histamine receptor stimulation. The efficacies

of
the contractile responses to the PDE inhibitors were of the order:
HN-10200 > IBMX > sulmazole > enoximone and max. stimulations, which were
obtained at concns. of 10-4 M, were 54 .+-. 4%, 41 .+-. 7%, 38 .+-. 7%

26 .+-. 5% (mean .+-. s.e.) greater than basal levels, resp. (n = 6); the basal value of contractile amplitude (dL), in the absence of PDE inhibitors was 7.39 .+- 0.18% (mean .+-. s.e.). Ro 20-1724 did not have any effect on contractile activity. Due to low basal levels of cyclic nucleotides in isolated cells, accumulation of cAMP due to the presence

the PDE inhibitors was detected only when the levels of cyclic nucleotide were enhanced with forskolin (10 .mu.M). The PDE inhibitors increased levels of cAMP only at concns. > 10-4 M. HN-10200 and sulmazole had similar concn.-dependent profiles for the accumulation of cAMP; their potencies were lower than that of IBMX (concns. of forskolin required to increase cAMP by 4 pmol mg-1 protein, in the presence of max. concns. of the PDE inhibitors, were 13 .+-. 3 .mu.M, 14 .+-. 3 .mu.M and 3 .+-. 0.6 .mu.M [mean .+-. s.e.], resp.). These results indicate that a similar mechanism, probably through a weak inhibition of the cAMP-specific PDE isoenzymes, is responsible for the increase in levels of cAMP by HN-10200

and sulmazole. However, cAMP is only partially responsible for the post contractile effect of HN-10200 and, similarly, sulmazole and IBMX. The lack of apparent increase in levels of cAMP by enoximone, highlights its degree of selectivity for the PDE III isoenzyme, such that the PDE IV isoform is still present in sufficient quantity to degrade cAMP within

the

and

cell. On the other hand, the potent action of Ro 20-1724 on accumulation of cAMP, in addn. to the lack of effect on contractile function, is in agreement with the selectivity of this compd. for the PDE IV isoenzyme

compartmentalization of cAMP in rat isolated ventricular cardiomyocytes.

REFERENCE 2: 104:19578 2-(2-Thienyl)imidazo[4,5-b]pyridine derivatives and their pharmaceutically compatible acid addition salts. Binder, Dieter; Rovenszky, Franz (Laevosan G.m.b.H. und Co. K.-G., Austria). Eur. Pat. Appl. EP 148742 Al 19850717, 14 pp. DESIGNATED STATES: R: BE, CH, DE, FR, GB, IT, LI, LU, NL, SE. (German). CODEN: EPXXDW. APPLICATION: EP 1984-890212 19841109. PRIORITY: AT 1983-3999 19831114.

GI

AB The title compds. (I: R = Me, Et; R1 = H, Me; R2 = MeS, MeS(O), MeO) were prepd. Thus, Me 3-hydroxy-5-methoxy-2-thiophenecarboxylate was methylated

with Me2SO4 to give 99.8% Me 3,5-dimethoxy-2-thiophenecarboxylate. This was sapond. (45.4%) and cyclocondensed with 2,3-pyridinediamine to give 29% I (R = Me, R1 = H, R2 = MeO). In rats representative I at 20 mg/kg/h i.v. increased heart frequency 39.2% and the heart contractility parameter

50% with slight or no redn. in arterial blood pressure.

L6 ANSWER 5 OF 9 REGISTRY COPYRIGHT 1999 ACS

RN 99479-92-2 REGISTRY

CN 1H-Imidazo[4,5-b]pyridine, 2-(3,5-dimethoxy-2-thienyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C12 H11 N3 O2 S

CI COM

SR CA

LC STN Files: CA CAPLUS, USPATFULL

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 104:19578 2-(2-Thienyl)imi/dazo[4,5-b]pyridine derivatives and their pharmaceutically compatible acid addition salts. Binder, Dieter; Rovenszky, Franz (Laevosan G.m.b.H. /und Co. K.-G., Austria). Eur. Pat. Appl. EP 148742 A1 19850717, 14 pp./ DESIGNATED STATES: R: BE, CH, DE, FR, GB, IT, LI, LU, NL, SE. (German). CODEN: EPXXDW. APPLICATION: EP 1984-890212 19841109. PRIORITY: AT 1983-3999 19831114.

GI

The title compds. (I: R = Me/Et; R1 = H, Me; R2 = MeS, MeS(O), MeO) were prepd. Thus, Me 3-hydroxy-5/methoxy-2-thiophenecarboxylate was AΒ methylated

with Me2SO4 to give 99.8% Me 3,5-dimethoxy-2-thiophenecarboxylate. This was sapond. (45.4%) and cyclocondensed with 2,3-pyridinediamine to give 29% I (R = Me, R1 = H, R2 = MeO). In rats representative I at 20 mg/kg/h i.v. increased heart frequency 39.2% and the heart contractility parameter

50% with slight or no redn. in arterial blood pressure.

Ι

ANSWER 6 OF 9 REGISTRY COPYRIGHT 1999 ACS L6

RN 99479-91-1 REGISTRY

1H-Imidazo[4,5-b]pyridine 2-[3-methoxy-5-(methylsulfinyl)-2-thienyl]-CN (9CI) (CA INDEX NAME)

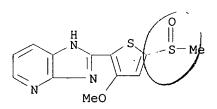
FS 3D CONCORD

C12 H11 N3 O2 S2 MF

CI COM

SR CA

CA, CAPLUS, USPATFULL LC STN Files:



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 104:19578 2-(2-Thienyl)imidazo[4,5-b]pyridine derivatives and their pharmaceutically compatible acid addition salts. Binder, Dieter; Rovenszky, Franz (Laevosan G.m.b.H. und Co. K.-G., Austria). Eur. Pat. Appl. EP 148742 A1 19850717, 14 pp. DESIGNATED STATES: R: BE, CH, DE, FR, GB, IT, LI, LU, NL, SE. (German). CODEN: EPXXDW. APPLICATION: EP

$$R^2$$
 R^2
 R^2
 R^3
 R^4
 R^4
 R^4
 R^4
 R^4

AB The title compds. (I: R = Me, Et; R1 = H, Me; R2 = MeS, MeS(O), MeO) were prepd. Thus, Me 3-hydroxy-5-methoxy-2-thiophenecarboxylate was methylated

with Me2SO4 to give 99.8% Me 3,5-dimethoxy-2-thiophenecarboxylate. This was sapond. (45.4%) and cyclocondensed with 2,3-pyridinediamine to give 29% I (R = Me, R1 = H, R2 = MeO). In rats representative I at 20 mg/kg/h i.v. increased heart frequency 39.2% and the heart contractility parameter

50% with slight or no redn. in arterial blood pressure.

L6 ANSWER 7 OF 9 REGIŞTRY COPYRIGHT 1999 ACS

RN 99479-90-0 REGISTRY

CN 1H-Imidazo[4,5-b]pyridine, 2-[3-methoxy-5-(methylthio)-2-thienyl]-, hydrochloride (9CY) (CA INDEX NAME)

MF C12 H11 N3 O S2 / x C1 H

SR CA

LC STN Files: CA/ CAPLUS, USPATFULL

CRN (99479-89-7)

REFERENCE 1: 104:19578 2-(2-Thienyl)imidazo[4,5-b]pyridine derivatives and their pharmaceutically compatible acid addition salts. Binder, Dieter; Rovenszky, Franz (Laevosan G.m.b.H. und Co. K.-G., Austria). Eur. Pat. Appl. EP 148742 A1 19850717, 14 pp. DESIGNATED STATES: R: BE, CH, DE, FR, GB, IT, LI, LU, NL, SE. (German). CODEN: EPXXDW. APPLICATION: EP 1984-890212 19841109. PRIORITY: AT 1983-3999 19831114.

GI

AB The title compds. (I: R = Me, Et; R1 = H, Me; R2 = MeS, MeS(O), MeO) were prepd. Thus, Me 3-hydroxy-5-methoxy-2-thiophenecarboxylate was

methylated

with Me2SO4 to give 99.8% Me 3,5-dimethoxy-2-thiophenecarboxylate. This was sapond. (45.4%) and cyclocondensed with 2,3-pyridinediamine to give 29% I (R = Me, R1 = H, R2 = MeO). In rats representative I at 20 mg/kg/h i.v. increased heart frequency 39.2% and the heart contractility parameter

50% with slight or no redn. in arterial blood pressure.

L6 ANSWER 8 OF 9 REGISTRY COPYRIGHT 1999 ACS

RN 99479-89-7 REGISTRY

CN 1H-Imidazo[4,5-b]pyridine, 2-[3-methoxy-5-(methylthio)-2-thienyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C12 H11 N3 O S2

CI COM

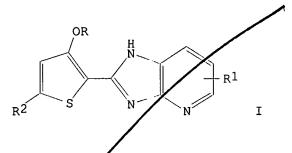
SR CA

LC STN Files: ÇA, CAPLUS, USPATFULL

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 104:19578 2-(2-Thienyl)imidazo[4,5-b]pyridine derivatives and their pharmaceutically compatible acid addition salts. Binder, Dieter; Rovenszky, Franz (Laevosan G.m.b.H. und Co. K.-G., Austria). Eur. Pat. Appl. EP 148742 A1 19850717, 14 pp. DESIGNATED STATES: R: BE, CH, DE, FR, GB, IT, LI, LU, NL, SE. (German). CODEN: EPXXDW. APPLICATION: EP 1984-890212 19841109. PRIORITY: AT 1983-3999 19831114.

GI



AB The title compds. (I: R = Me, Et; R1 = H, Me; R2 = MeS, MeS(O), MeO) were prepared. Thus, Me 3-hydroxy-5-methoxy-2-thiophenecarboxylate was methylated

with Me2SO4 to give 99.8% Me 3,5-dimethoxy-2-thiophenecarboxylate. This vas sapond. (45.4%) and cyclocondensed with 2,3-pyridinediamine to give 29% I (R = Me, R1 = H, R2 = MeO). In rats representative I at 20 mg/kg/h i.v. increased heart frequency 39.2% and the heart contractility parameter

50% with slight or no redn. in arterial blood pressure.

L6 ANSWER 9 OF 9 REGISTRY COPYRIGHT 1999 ACS

RN 1204-64-4 REGISTRY

CN 1H-Imidazo[4,5-b]pyridine, 2-(2-thienyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C10 H7 N3 S

CI COM

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMINFORMRX (*File contains numerically searchable property data)

2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 120:191612 An expedient route to 1H-benzimidazoles and 1H-imidazopyridines. Vanden Eynde, Jean Jacques; Mayence, Annie; Maquestiau, Andre; Anders, Ernst (Org. Chem. Lab., Univ. Mons-Hainaut, Mons, B-7000, Belg.). Bull. Soc. Chim. Belg., 102(5), 357-64 (English) 1993. CODEN: BSCBAG. ISSN: 0037-9646.

GI

AB 1H-Benzimidazoles I (R = Ph, substituted Ph, alkyl, 2-furyl, 2-thienyl; R1

= H, Cl, NO2), 1H-imidazo[4,5-b] pyridines II (R = Ph, substituted Ph, 2-thienyl), and 1H-imidazo[4,5-c] pyridines III (R = 4-MeC6H4, 4-FC6H4)

can

be synthesized readily by reaction of unisolated N-(1-chloroalkyl)pyridinium chlorides with 1,2-benzenediamines, 2,3-pyridinediamine, and 3,4-pyridinediamine resp.

REFERENCE 2: 108:112331 Synthesis of 2-aryl-substituted imidazo[4,5-b]pyridines and imidazo[4,5-c]pyridines. Yutilov, Yu. M.; Shcherbina, L. I. (Inst. Fiz.-Org. Khim. Uglekhim., Donetsk, 340114, USSR). Khim. Geterotsikl. Soedin. (5), 639-45 (Russian) 1987. CODEN: KGSSAQ. ISSN: 0453-8234.

GI

AB Heating diaminopyridines I (R = H, Me; X = H, Cl, Br) or II (R = H, Me) with R1CHO [R1 = Ph, 4-ClC6H4, 4-FC6H4, 4-HOC6H4, 4-MeOC6H4, 4-Me2NC6H4, 2,5-(MeO)2C6H3, 2-thienyl, 3-pyridyl, etc.] and S gave 70-93% title compds. III (same R, R1, X) or IV (same R, R1). Intramol. cyclization of I (X = H, R = CH2Ph) or II (R = CH2Ph) by heating with S gave 48% III (X = H, R = H, R1 = Ph) or 60% IV (R = H, R1 = Ph), resp.

=> fil caol;s 16

SINCE FILE	TOTAL
ENTRY	SESSION
270.18	1274.63
SINCE FILE	TOTAL
ENTRY	SESSION
-4.59	-53.33
	ENTRY 270.18 SINCE FILE ENTRY

FILE 'CAOLD' ENTERED AT 14:46:30 ON 16 DEC 1999
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 1999 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, and patent

assignees are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

L7 1 L6

=> d

L7 ANSWER 1 OF 1 COPYRIGHT 1999 ACS
AN CA62:4022b CAOLD
TI prepn. of 2-arylimidazo [4.5-b]pyridines
AU Garmaise, David L.; Komlossy, J.
IT 942-25-6 945-56-2 945-78-8 951-73-5 952-12-5 952-13-6

942-25-6 945-56-2 945-78-8 951-73-5 952-12-5 952-13-6 952-14-7 955-41-9 956-15-0 956-16-1 956-17-2 976-30-7 1016-93-9 1019-81-4 1027-04-9 1142-55-8 **1204-64-4**

=> del his y